

SEQUENCE LISTING

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<120> EXPRESSION SYSTEMS USING MAMMALIAN BETA-ACTIN PROMOTER

<130> 14875-162US1

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<151> 2004-12-03

<150> JP 2003-405269

<151> 2003-12-03

<160> 39

<170> PatentIn version 3.1

<210> 1

<211> 1577

<212> DNA

<213> Mus musculus

<400> 1

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 <213> Mus musculus

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<210> 3
<211> 604
<212> DNA
<213> Woodchuck hepatitis virus

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<210> 4
<211> 366
<212> DNA

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<213> Homo sapiens

<400> 4

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aagtacgccc cctattgacg tcaatgacgg taaatggccc gcctggcatt atgcccagta	300
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<210> 5

<211> 660

<212> DNA

<213> Mus musculus

<400> 5

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gtatgatccc actatagagg actcctaccg gaaacagggtg gtcattgatg gggagacatg	180
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<210> 6

<211> 576

<212> DNA

<213> Mus musculus

<400> 6

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<210> 7
<211> 189
<212> PRT
<213> Mus musculus

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Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35          40          45

Glu Thr Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50          55          60

Ser Ala Met Arg Asp Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Cys
65          70          75          80

Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His Gln Tyr
85          90          95

Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val
100         105         110

Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg
115         120         125

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr
130         135         140

Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val
145         150         155         160

Arg Glu Ile Arg Gln His Lys Leu Arg Lys Leu Asn Pro Pro Asp Glu
165         170         175

Ser Gly Pro Gly Cys Met Ser Cys Lys Cys Val Leu Ser

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185

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<210> 8
<211> 188
<212> PRT
<213> Homo sapiens
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Ser	Ala	Leu	Thr	Ile	Gln	Leu	Ile	Gln	Asn	His	Phe	Val	Asp	Glu	Tyr	
			20					25					30			
Asp	Pro	Thr	Ile	Glu	Asp	Ser	Tyr	Arg	Lys	Gln	Val	Val	Ile	Asp	Gly	
		35					40					45				
Glu	Thr	Cys	Leu	Leu	Asp	Ile	Leu	Asp	Thr	Ala	Gly	Gln	Glu	Glu	Tyr	
	50					55					60					
Ser	Ala	Met	Arg	Asp	Gln	Tyr	Met	Arg	Thr	Gly	Glu	Gly	Phe	Leu	Cys	
65					70					75					80	
Val	Phe	Ala	Ile	Asn	Asn	Thr	Lys	Ser	Phe	Glu	Asp	Ile	His	His	Tyr	
				85					90					95		
Arg	Glu	Gln	Ile	Lys	Arg	Val	Lys	Asp	Ser	Glu	Asp	Val	Pro	Met	Val	
			100					105					110			
Leu	Val	Gly	Asn	Lys	Cys	Asp	Leu	Pro	Ser	Arg	Thr	Val	Asp	Thr	Lys	
		115					120					125				
Gln	Ala	Gln	Asp	Leu	Ala	Arg	Ser	Tyr	Gly	Ile	Pro	Phe	Ile	Glu	Thr	
		130				135					140					
Ser	Ala	Lys	Thr	Arg	Gln	Gly	Val	Asp	Asp	Ala	Phe	Tyr	Thr	Leu	Val	
145					150					155					160	
Arg	Glu	Ile	Arg	Lys	His	Lys	Glu	Lys	Met	Ser	Lys	Asp	Gly	Lys	Lys	
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Lys	Lys	Lys	Lys	Ser	Lys	Thr	Lys	Cys	Val	Ile	Met					
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<210>	9
<211>	27
<212>	DNA
<213>	Artificial

<220>
<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

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<400> 9
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<210> 10
 <211> 27
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 10
 ttgtcgacga ccagcgagc gatatcg 27

<210> 11
 <211> 26
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 11
 agatctggga gtgactctct gtccat 26

<210> 12
 <211> 26
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 12
 aagcttggcg aactatcaag acacaa 26

<210> 13
 <211> 50
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 13
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<210> 14
 <211> 50
 <212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 14

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<210> 15

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 15

acgctatgtg gatacgctgc tttaatgcct ttgtatcatg ctattgcttc 50

<210> 16

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 16

ttatacaagg aggagaaaat gaaagccata cggaagcaa tagcatgata 50

<210> 17

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 17

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<210> 18

<211> 50

<212> DNA

<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 18
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<210> 19
<211> 50
<212> DNA
<213> Artificial

<220>
<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 19
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<210> 20
<211> 50
<212> DNA
<213> Artificial

<220>
<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 20
gtcccggaaa ggagctgaca ggtggtggca atgcccacaac cagtgggggt 50

<210> 21
<211> 50
<212> DNA
<213> Artificial

<220>
<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 21
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<210> 22
<211> 50
<212> DNA
<213> Artificial

<220>
<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 22
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<210> 23
 <211> 50
 <212> DNA
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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 23
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<210> 24
 <211> 50
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 24
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<210> 25
 <211> 50
 <212> DNA
 <213> Artificial

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<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 25
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<210> 26
 <211> 50
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 26
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<210> 27
 <211> 50
 <212> DNA
 <213> Artificial

<220>
 <223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 27
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<210> 28
 <211> 57
 <212> DNA
 <213> Artificial

<220>
 <223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 28
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<210> 29
 <211> 56
 <212> DNA
 <213> Artificial

<220>
 <223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 29
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<210> 30
 <211> 30
 <212> DNA
 <213> Artificial

<220>
 <223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 30
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<210> 31
 <211> 26
 <212> DNA
 <213> Artificial

<220>
 <223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 31

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26

<210> 32
 <211> 25
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 32
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25

<210> 33
 <211> 22
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 33
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22

<210> 34
 <211> 27
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 34
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27

<210> 35
 <211> 27
 <212> DNA
 <213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 35
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27

<210> 36
 <211> 24

<212> DNA
<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 36
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24

<210> 37
<211> 20
<212> DNA
<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 37
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20

<210> 38
<211> 27
<212> DNA
<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 38
gtggtgggcg ctgtaggcgt gggaaag

27

<210> 39
<211> 27
<212> DNA
<213> Artificial

<220>

<223> Description of Artificial Sequence : Artificially Synthesized Primer Sequence

<400> 39
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27